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ABSTRACT OF THE DISCLOSURE

A scanning microscope has a light source that emits illuminating light for illumination of a specimen, at least one first detector for detection of the detected light proceeding from the specimen, an objective arranged in both an illumination beam path and a detection beam path, and a coupling-out element that is selectably for descanned detection and non-descanned detection positionable in the illumination and detection beam path. A light-guiding fiber is provided for transporting at least a portion of the detection light from the coupling-out element to the first detector.